

6. (Twice Amended) A method of producing an active human coagulation factor VIII from plant cells, comprising the steps of:

- C3
- (a) introducing a sequence encoding human coagulation factor VIII into a plant expression vector;
  - (b) transforming plant cells with said plant expression vector;
  - (c) cultivating said transformed cells; and
  - (d) obtaining the human coagulation factor VIII.

12. (Amended) A method of producing an active human coagulation factor VIII from plant cells, comprising the steps of:

- C4
- (a) introducing a sequence encoding human coagulation factor VIII into a plant expression vector;
  - (b) transforming plant cells with said plant expression vector;
  - (c) cultivating said transformed cells; and
  - (d) obtaining the human coagulation factor VIII,

wherein said sequence encodes a full length of said human coagulation factor VIII.

23. (Twice Amended) A method of producing an active human coagulation factor VIII using *Agrobacterium*-mediated transformation, comprising:

- C5
- (a) modifying a sequence encoding human coagulation factor VIII for subcloning into a plant expression vector;
  - (b) subcloning said sequence into said plant expression vector;
  - (c) transferring the plant expression vector to *Agrobacterium*;
  - (d) co-cultivating plant cells with said *Agrobacterium*;
  - (e) selecting positive transformants from the co-cultivated culture on a selection medium;